

AMENDMENT TO THE CLAIMS

The following claim listing replaces all prior listings and versions of the claims:

LISTING OF CLAIMS

Claims 1-10 (Cancelled)

11. (Currently Amended) A structure comprising tungsten as a main component and tungsten carbide, wherein content of the tungsten is at least 50% by mass, [[the]] content of carbon in the structure is at least 0.1% by mass and [[the]] total content of cobalt, nickel, and iron is 3% or less by mass, respectively based on the structure.

12. (Previously Presented) The structure according to Claim 11, wherein the structure has a Vickers hardness of at least 800.

13. (Previously Presented) The structure according to Claim 11, wherein the structure has a density of at least 10 g/cm³.

14. (Previously Presented) The structure according to Claim 11, wherein the structure has a surface roughness of 1 µm or less.

15. (Previously Presented) The structure according to Claim 11, wherein the structure has an average grain size of 50 nm or less.

16. (Currently Amended) The structure according to Claim 11, wherein the number of the structure has pools having a size of at least 5 µm and consisting of at least one element

selected from the group consisting of cobalt, nickel, and iron, and the number of pools is not more than one per 100 mm² of the surface of the structure.

17. (Currently Amended) The structure according to Claim 11, wherein the structure has a shape on the order of micrometers comprising at least one of a concave portion and a convex portion, width D of the shape being 1 μm to 100 μm and height of the shape being 1 μm to 1000 μm.

18. (Currently Amended) The structure according to Claim 13, wherein the structure has a shape on the order of micrometers comprising at least one of a concave portion and a convex portion, width D of the shape being 1 μm to 100 μm and height of the shape being 1 μm to 1000 μm.

19. (Currently Amended) The structure according to Claim 14, wherein the structure has a shape on the order of micrometers comprising at least one of a concave portion and a convex portion, width D of the shape being 1 μm to 100 μm and height of the shape being 1 μm to 1000 μm.

20. (Currently Amended) The structure according to Claim 15, wherein the structure has a shape on the order of micrometers comprising at least one of a concave portion and a convex portion, width D of the shape being 1 μm to 100 μm and height of the shape being 1 μm to 1000 μm.

21. (Currently Amended) The structure according to Claim 16, wherein the structure has a shape on the order of micrometers comprising at least one of a concave portion and a convex portion, width D of the shape being 1 μm to 100 μm and height of the shape being 1 μm to 1000 μm .

22. (Withdrawn) A method of manufacturing the structure according to Claim 11, comprising the step of forming the structure by electro-deposition of a molten salt containing at least two elements selected from the group consisting of lithium, sodium, potassium, rubidium, cesium, beryllium, magnesium, calcium, strontium, and barium; at least one element selected from the group consisting of fluorine, chlorine, bromine, and iodine; tungsten; zinc; and an organic compound.

23. (Withdrawn) A method of manufacturing the structure according to Claim 13, comprising the step of forming the structure by electro-deposition of a molten salt containing at least two elements selected from the group consisting of lithium, sodium, potassium, rubidium, cesium, beryllium, magnesium, calcium, strontium, and barium; at least one element selected from the group consisting of fluorine, chlorine, bromine, and iodine; tungsten; zinc; and an organic compound.

24. (Withdrawn) A method of manufacturing the structure according to Claim 14, comprising the step of forming the structure by electro-deposition of a molten salt containing at least two elements selected from the group consisting of lithium, sodium, potassium, rubidium, cesium, beryllium, magnesium, calcium, strontium, and barium; at least one element selected from the group consisting of fluorine, chlorine, bromine, and iodine; tungsten; zinc; and an organic compound.

25. (Withdrawn) A method of manufacturing the structure according to Claim 15, comprising the step of forming the structure by electro-deposition of a molten salt containing at least two elements selected from the group consisting of lithium, sodium, potassium, rubidium, cesium, beryllium, magnesium, calcium, strontium, and barium; at least one element selected from the group consisting of fluorine, chlorine, bromine, and iodine; tungsten; zinc; and an organic compound.

26. (Withdrawn) A method of manufacturing the structure according to Claim 16, comprising the step of forming the structure by electro-deposition of a molten salt containing at least two elements selected from the group consisting of lithium, sodium, potassium, rubidium, cesium, beryllium, magnesium, calcium, strontium, and barium; at least one element selected from the group consisting of fluorine, chlorine, bromine, and iodine; tungsten; zinc; and an organic compound.

27. (Withdrawn) The method of manufacturing a structure according to Claim 22, wherein the structure is formed by electro-deposition at the temperature of the molten salt of 300°C or less.

28. (Withdrawn) The method of manufacturing a structure according to Claim 22, wherein the organic compound is polyethylene glycol.

29. (Withdrawn) The method of manufacturing a structure according to Claim 27, wherein the organic compound is polyethylene glycol.